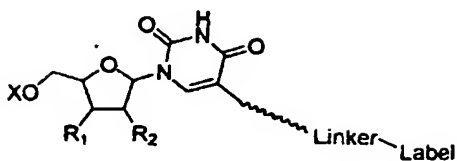
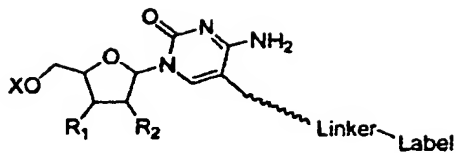


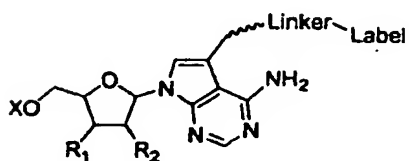
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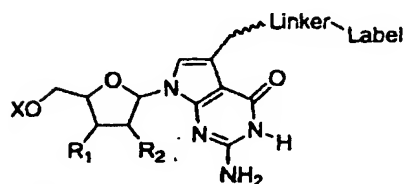
Uridine C5-linker



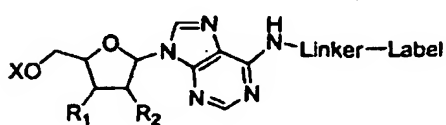
Cytidine C5-linker



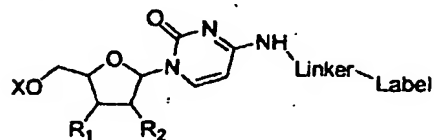
N7 Deazaadenosine C7-linker



N7 Deazaguanosine C7-linker



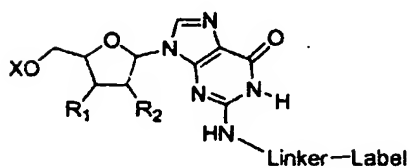
Adenosine N6-linker



Cytidine N4-linker

where R_1 and R_2 , which may be the same or different, are each selected from H, OH, or any group which can be transformed into an OH. Suitable groups for R_1 and R_2 are described in Figure 3

X = H, phosphate, diphosphate or triphosphate



Guanosine N2-linker

Fig. 1

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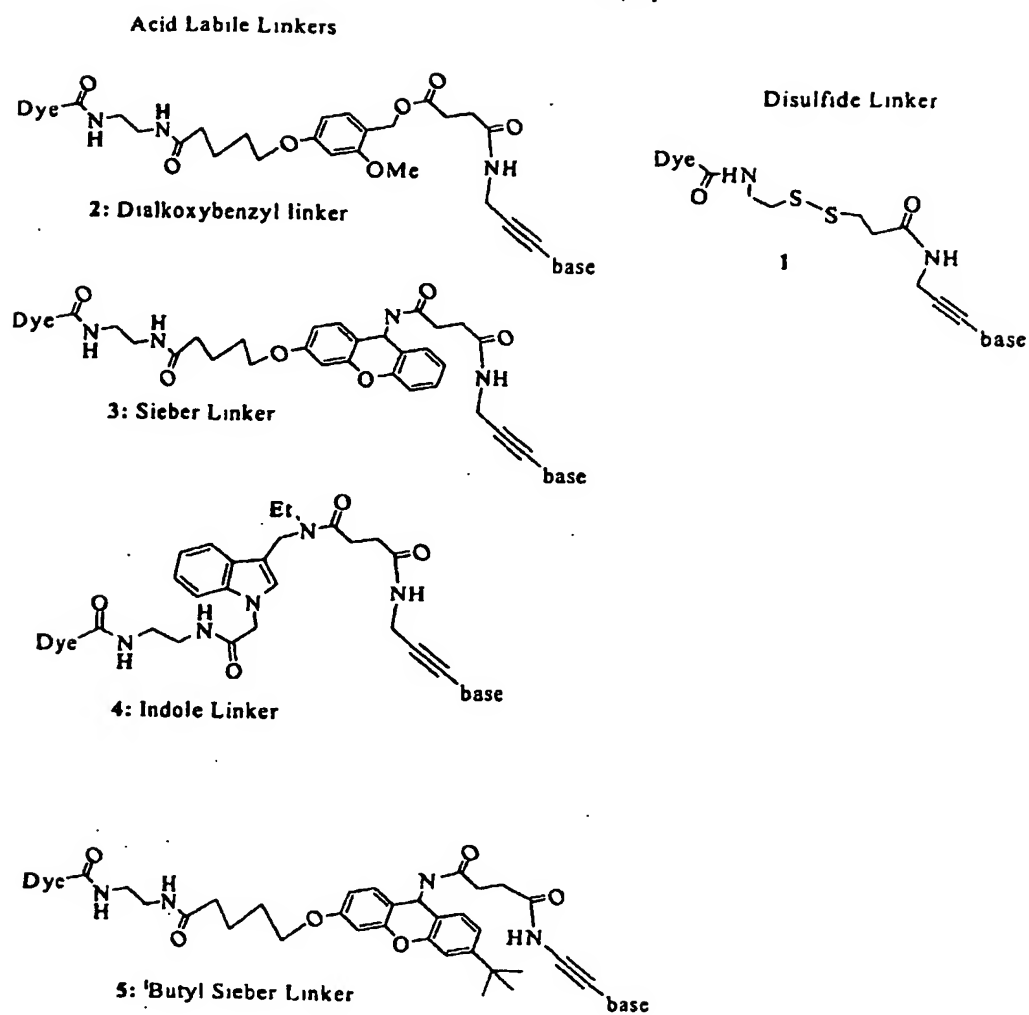
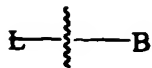
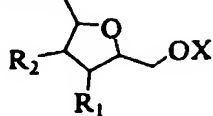


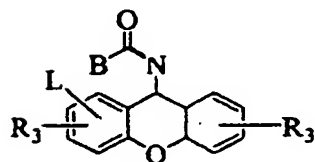
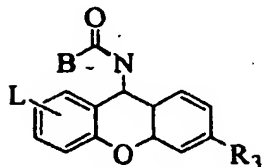
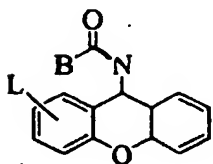
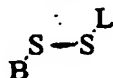
Fig. 2

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Label ~~~Cleavable linker~~~Base



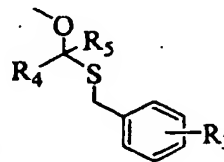
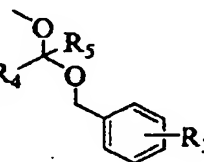
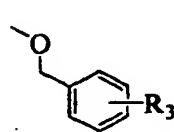
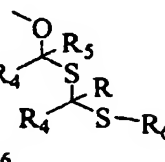
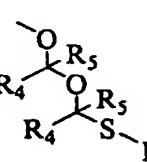
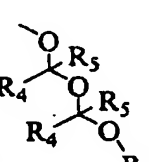
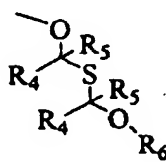
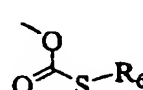
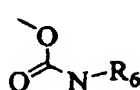
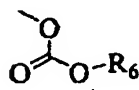
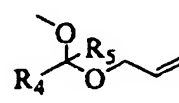
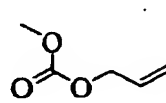
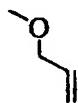
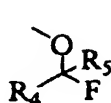
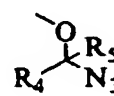
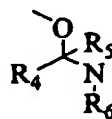
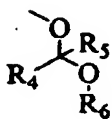
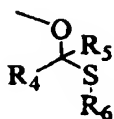
Cleavable linkers may include:



R3 represents one or more substituents independently selected from alkyl, alkoxy, amino or halogen

Alternatively, cleavable linkers may be constructed from any labile functionality used on the 3'-block

where R₁ and R₂, which may be the same or different, are each selected from H, OH, or any group which can be transformed into an OH, including a carbonyl

R₁ and R₂ groups may include

where R₄ is H or alkyl, R₅ is H or alkyl and R₆ is alkyl, cycloalkyl, alkenyl, cycloalkenyl or benzyl

and X is H, phosphate, diphosphate or triphosphate

Fig. 3

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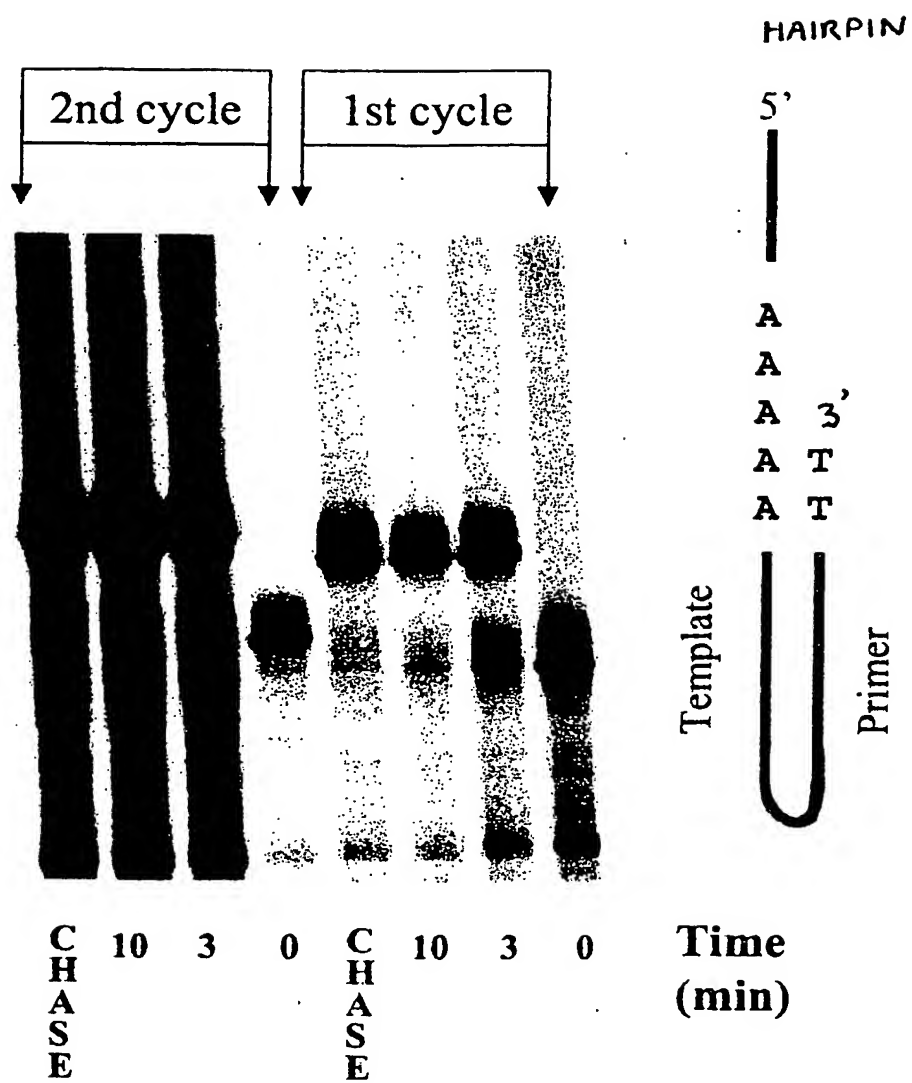


Fig. 4